FIG. 1

OWN VEHICLE NAVIGATION APPARATUS

INPUT SECTION 7

CURRENT POSITION ACQUISITION SECTION 12

STORAGE SECTION 3

TRANSMISSION SECTION 4

RECEPTION SECTION 15

CONTROL SECTION 46

DISPLAY SECTION 17

OTHER VEHICLE NAVIGATION APPARATUS

INPUT SECTION

CURRENT POSITION ACQUISITION SECTION 12

STORAGE SECTION 13

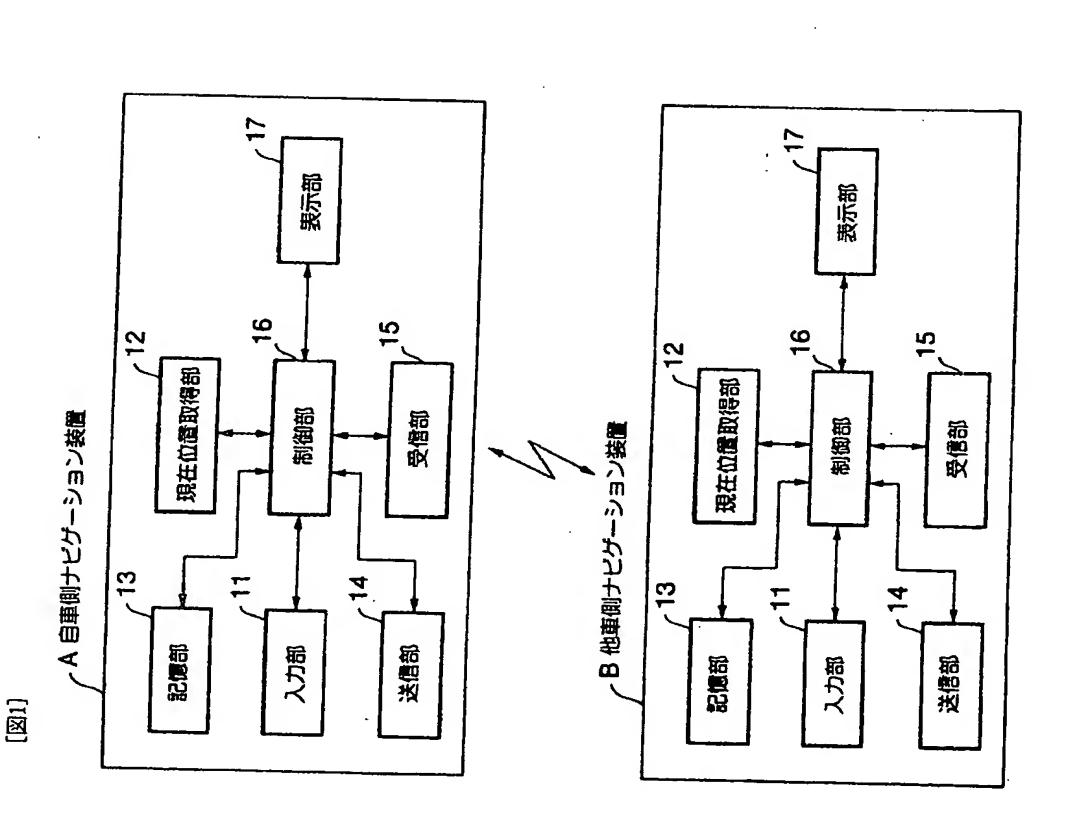
TRANSMISSION SECTION 4

CONTROL SECTION 16

RECEPTION SECTION

15

DISPLAY SECTION



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[図2]

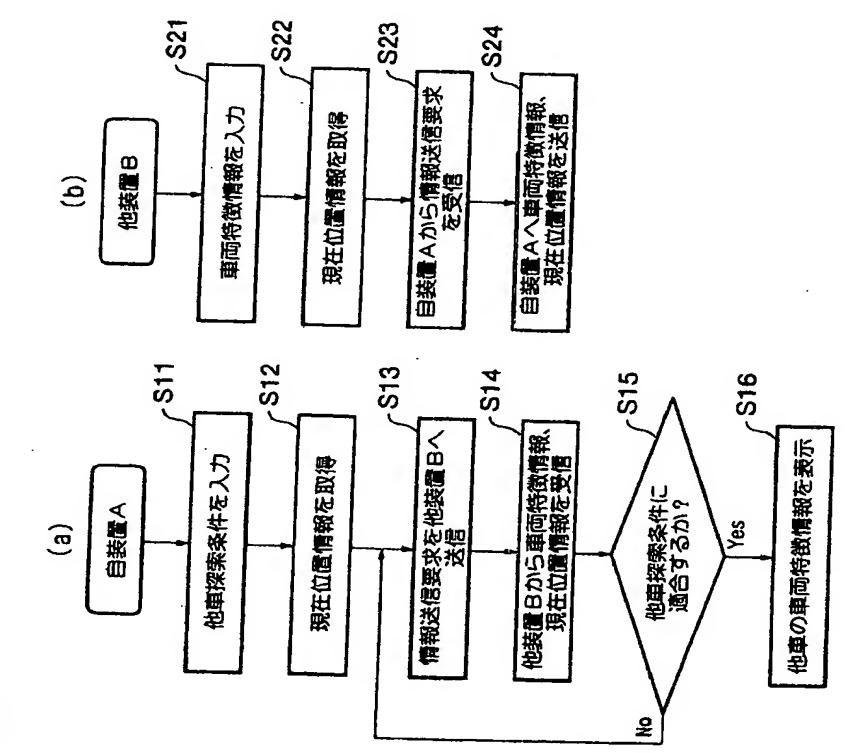


FIG. 2

<u>a</u>

OWN APPARATUS A

11 INPUT OTHER VEHICLE SEARCH CONDITION

2 ACQUIRE CURRENT POSITION INFORMATION

S13 TRANSMIT INFORMATION TRANSMISSION REQUEST TO OTHER APPARATUS B

S14 RECEIVE VEHICLE FEATURE INFORMATION AND CURRENT POSITION INFORMATION FROM OTHER APPARATUS B

S15 OTHER VEHICLE SEARCH CONDITION SATISFIED?

S16 DISPLAY VEHICLE FEATURE INFORMATION OF OTHER VEHICLE

(Q)

OTHER APPARATUS B

S21 INPUT VEHICLE FEATURE INFORMATION

S22 ACQUIRE CURRENT POSITION INFORMATION

S23 RECEIVE INFORMATION TRANSMISSION REQUEST FROM OWN APPARATUS A

S24 TRANSMIT VEHICLE FEATURE INFORMATION AND CURRENT POSITION INFORMATION TO OWN APPARATUS A

Customer #52473

FIG. 3

OWN VEHICLE NAVIGATION APPARATUS ⋖

23

22

25

現在位置取得部

記憶的

29

28

2

表示即

勘笛鸮

入力部

24

27

26

受信部

送信部

程路探索部

INPUT SECTION 21

CURRENT POSITION ACQUISITION SECTION

MAP DATA ACQUISITION SECTION 23

ROUTE SEARCH SECTION 24

STORAGE SECTION 25

TRANSMISSION SECTION 26

RECEPTION SECTION 27

CONTROL SECTION 28

DISPLAY SECTION 29

OTHER VEHICLE NAVIGATION APPARATUS

 \mathbf{a}

INPUT SECTION 2

29

28

7

表示部

西台的

入力部

甚 因 明 命 問

現在位置取得部

記憶部

22

25

B 色華倒ナアゲーション被配

CURRENT POSITION ACQUISITION SECTION 22

MAP DATA ACQUISITION SECTION

ROUTE SEARCH SECTION

経路探索部

27

26

政伯部

送信即

STORAGE SECTION 25 TRANSMISSION SECTION

RECEPTION SECTION

27

CONTROL SECTION

DISPLAY SECTION

3/5

[<u>M</u>3]

A 目車側ナバゲーツョン被艦

Kimihiro NOMURA, et al. NAVIGATION APPARATUS NGB-106US Customer #52473

S41 S42 S43 S44 S45 S46 自装置Aへ車両特徴帽報、現在位置情報、探索経路情報 を送信 探索経路を地図画面に表示 車両特徴情報と目的地をスカー 自装置人から情報送信要求を受信を受信を受信 探索絕路情報と現在位置 情報を記憶 現在位置情報を取得し 地図を表示 ω 他装置 9 **S32 S31 S33 S39 S34 S32 S36 S37 S38** 自軍から他車までの距離を算出 他装置日から車両特徴情報、現在位置情報、探索経路情報 及工位置情報、探索経路情報 を受信 探索経路を地図画面に表示 情報送信要求を他装置Bへ 送信 車両特徴情報と目的地を入力 探索経路情報と現在位置 情報を記憶 現在位置情報を取得し地図を表示 算出した距離と他車の車両特徴情報を表示 同じ経路上を走行する他軍はあるから 自装置A (a) Yes 웆

FIG. 4

<u>a</u>

OWN APPARATUS A

1 INPUT VEHICLE FEATURE INFORMATION AND DESTINATION

ACQUIRE CURRENT POSITION INFORMATION AND DISPLAY MAP

DISPLAY SEARCH ROUTE ON MAP SCREEN

S33

S34 STORE SEARCH ROUTE INFORMATION AND CURRENT POSITION INFORMATION

S35 TRANSMIT INFORMATION TRANSMISSION REQUEST TO OTHER APPARATUS B

6 RECEIVE VEHICLE FEATURE INFORMATION, CURRENT POSITION

INFORMATION, AND SEARCH ROUTE INFORMATION FROM OTHER APPARATUS B

337 DOES OTHER VEHICLE RUNNING ON THE SAME ROUTE AS OWN VEHICLE?

S38 CALCULATE DISTANCE FROM OWN VEHICLE TO OTHER VEHICLE

S39 DISPLAY CALCULATED DISTANCE AND VEHICLE FEATURE INFORMATION OF

@

OTHER VEHICLE

OTHER APPARATUS B

S41 INPUT VEHICLE FEATURE INFORMATION AND DESTINATION

342 ACQUIRE CURRENT POSITION INFORMATION AND DISPLAY MAP

43 DISPLAY SEARCH ROUTE ON MAP SCREEN

S44 STORE SEARCH ROUTE INFORMATION AND CURRENT POSITION

INFORMATION

345 RECEIVE INFORMATION TRANSMISSION REQUEST FROM OWN APPARATUS A

46 TRANSMIT VEHICLE FEATURE INFORMATION, CURRENT POSITION

INFORMATION, AND SEARCH ROUTE INFORMATION TO OWN APPARATUS A

4

RECEIVE INFORMATION FROM OTHER VEHICLE WITHIN RADIUS OF

OTHER VEHICLE DETERMINATION PROCESSING OF OWN APPARATUS A

50m

S52

S51

DOES OTHER VEHICLE EXIST ON ROUTE OF OWN VEHICLE?

CALCULATE DISTANCE FROM OWN VEHICLE TO OTHER VEHICLE **S53**

SAME GUIDANCE DESCRIPTION? **S54**

S53

Kes

自車から他車までの距離を算出

.S52

自車の経路上に他車がいるから

2

半径50m以内の他車から情報を受信

STORE VEHICLE FEATURE INFORMATION AND DISTANCE **S**55

STORE DISTANCE **S**56

SEARCH FOR TARGET VEHICLE NEAREST TO OWN VEHICLE **S**57

AT SECTION ONE EXTRACT VEHICLES STORED IN STORAGE **S58**

TIME

S56

.\$55

Yes

\$54

운

同じ案内内容か

距離を格納

\$57

自車に最も近いターゲット車を検索

單両特徵價報と距離を格納

EXIST BETWEEN TARGET VEHICLE AND OWN DOES VEHICLE **S**29

VEHICLE?

COUNT NUMBER OF VEHICLES Se0

S58

.S59

ターゲット車と日車の間にいるか

Ş

記憶部に格納された単両を1台ずし抽出

S60

Yes

台数をカウントアップ

S61

計算した台数分の車両を表示

MANY VEHICLES AS CALCULATED NUMBER OF DISPLAY AS **S61**

VEHICLES

5/2

自装置Aの他車判定処理

[**図**32]